

WasteWise

th Year

ANNUAL REPORT



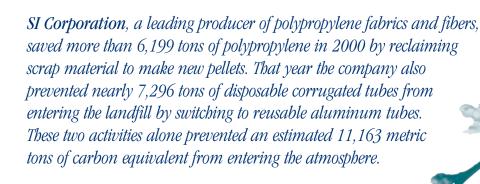
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Introduction

In 1994 the U.S. Environmental Protection Agency founded a groundbreaking program designed to help businesses and organizations reduce the amount of solid waste they generate. Over the past seven years the WasteWise program has been providing technical assistance and recognition to more than 1,100 partners that have joined the program. WasteWise is pleased to report that our partners, both new and old, are continuing to demonstrate their dedication to fostering a sustainable environment. We commend our partners for their efforts and promise to continue doing everything we can to support them. As part of this ongoing support, WasteWise has been focusing on new concepts and issues such as Resource Management and electronics reuse and recovery, and our partners can now access a new Web site with a more userfriendly design and expanded resources and services. Over the next year, partners can expect to see more new initiatives such as industry-specific tools and resources, expanded individualized technical assistance, and increased information and ideas to address the link between waste and global climate change. We hope you find this overview of WasteWise program activities and profiles of our Partners of the Year and Program Champions both informative and motivational.





Resource Management

WasteWise strives to keep our partners informed of the latest waste reduction concepts and techniques that are applicable to our diverse membership. Consequently, we introduced Resource Management (RM) tools and success stories to partners through the Web site and Partner Network meetings during the past year. RM is a strategic alternative to traditional hauling and disposal contracts. It provides financial incentives for waste reduction innovations by compensating waste contractors based on performance in achieving an organization's waste reduction goals rather than the volume of waste disposed. The new RM Web page, which is located on the Member Services section of the WasteWise Web site, explains the difference between RM and traditional waste disposal contracts and details standard characteristics of an RM contract. The resources section of the page includes links to various journal articles on RM, in addition to a report produced exclusively for WasteWise partners: *From Waste to Resource Management: Reinventing Waste Contracts and Services*. WasteWise also set up the RM Online Feedback Form for partners to share their interest in and use of RM contracting within their organization. WasteWise is using this information to gauge interest, highlight partner efforts, develop RM tools for partners, and identify potential pilot RM projects with partners. RM was also the main discussion topic at the Partner Network meetings, where EPA helped partners explore the possibility of using RM within their organizations.

Coined by WasteWise partner **General Motors Corporation (GM)**, Resource Management was developed to take GM's environmental business performance to a higher level. GM recognized that existing hauling and disposal contracts limited waste reduction efforts. Within the first 6 months of implementing RM contracts at several of its North American plants, the new approach had cut waste at the plants by almost 22 percent (33,000 tons). At the same time, recycling volumes grew by 64 percent from 50,000 tons to more than 82,000 tons. The plants also realized a 15 to 30 percent decrease in waste management costs.

PARTNERS PARTICIPATING IN ELECTRONICS CHALLENGE

American & Efird, Inc.
Applied Specialties, Inc.

AT&T

Bass Pro Shops

Bend La Pine School District

Boise State University/ASBSU

Capital Area Corporate Recycling Council

City of Chicago, IL

City of Newport News, VA

City of San Diego, CA

Colonial Williamsburg Foundation

Commerce Bank of St. Louis

Constellation Energy Group

Eastman Kodak Company

Harper's Consultancy and Superintendency, Inc.

Herman Miller, Inc.

Johns Hopkins University

King County, WA

Motorola, Inc.

NEC Electronics

Novartis Pharmaceuticals Corporation

Public Service Enterprise Group (PSEG)

RRRASOC, MI

Signet Scientific Co.

U.S. Postal Service—Alabama District

U.S. Postal Service—Northeast Area

U.S. Postal Service—Sacramento District

University of Virginia

Venture I

Washington State University

Washoe County Government, NV

Waste-Not Recycling

Electronics Challenge

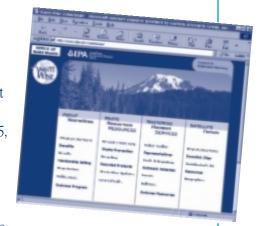
With the current pace of technological advancement, electronic equipment becomes outdated quickly. Recognizing the importance of reusing, upgrading, and remanufacturing electronics, WasteWise launched its second challenge program. Thirty-three partners responded to the challenge and pledged to reduce waste from their electronic products. To support partners in their efforts, WasteWise published an issue of the *WasteWise Update* dedicated to electronic product recovery and developed the Electronics Challenge resources page on the WasteWise Web site to provide links to other useful Web sites, publications, articles, and trade associations.

Technical Assistance and Site Visits

WasteWise continued to improve and expand its wide range of technical assistance services, which include electronic and published resources as well as one-on-one assistance.

A New Look for the WasteWise Web Site

One of the WasteWise program's most visible changes was the creation of a new Web site. Launched on August 15, 2001, it offers a more user-friendly design and exciting new features, including an Online Toolkit, a Publications Directory, industry-specific case studies, and a searchable



on-line database of WasteWise and external publications and other resources.

Publications

WasteWise continued to produce technical publications to assist partners in developing, implementing, and measuring their waste reduction activities. The *WasteWise Update* "Moving Towards Sustainability" defined and described the evolution of environmental thinking from end-of-pipe pollution control solutions to more sophisticated concepts such as industrial ecology and sustainability. Bob Langert of **McDonald's Corporation** called it "one of the best treatments of the subject I have seen." "Electronics Reuse and Recycling," which WasteWise developed as an accompaniment to the Electronics Challenge, provided information on donating or recycling electronics, reducing electronics waste by changing purchasing practices, and managing used electronics. "Environmentally Preferable Purchasing," also a *WasteWise Update* issue,



discussed the benefits of environmentally preferable purchasing (EPP), described how to establish and maintain an EPP program, and provided EPP examples. WasteWise also published a new set of industry case studies. Each case study includes several real-world examples of successful waste reduction strategies and innovations implemented by partners in 23 different industry sectors.

One-on-One Assistance

Through the Helpline and partner account representatives, WasteWise provided customized technical assistance to partners and responded to hundreds of waste reduction questions. We also made on-site visits to 23 partners, which allowed them to share their achievements and innovations with WasteWise representatives, note areas where partners needed technical assistance or new resources, and contribute ideas for how WasteWise can provide

better service. The insight gained from these visits is being used to

improve, among other things, WasteWise's data collection and review processes to better serve partners.

Reaching Out

The WasteWise program's progress in reducing solid waste continued to be featured in magazines and journals such as *Green@Work*, *Recycling Today*, and *An Environmental Affair*. Several published and online journals also recognized award-winning partners for their individual achievements. The announcement of our one-thousandth partner garnered significant attention from the environmental community. Several publications, including *Biocycle World* and *EarthVision Environmental News*, reported on this milestone.

We also continued to promote waste reduction and recruit new partners at more than a dozen trade shows and conferences, including the Environmental Expo 2000 in Boston, Massachusetts, the 92nd Annual Meeting & Exhibition of the Air & Waste Management Association in Salt Lake City, Utah, and the National Recycling Coalition's 19th Annual Congress & Exposition in Charlotte, North Carolina.

WasteWise will increase its promotional efforts during the next year as part of a recently developed media outreach strategy. One of the key components of this plan is increased promotion of the WasteWise awards winners. Beginning with the 2001 awards ceremony, EPA will develop an individualized press release for each of the award winners and distribute them directly to the local media outlets that the winners have identified. Other key components of the strategy, which will be implemented late in 2001, include educating freelance environmental writers about WasteWise, identifying key print and Internet media outlets and working closely with them to spread the WasteWise message, encouraging broader use of the WasteWise logo by partners, and producing new outreach publications.

Kinko's recently contacted its WasteWise representative for advice on recycling hundreds of surplus videotapes. Whereas one recycler Kinko's had contacted wanted to charge 50 cents per tape, WasteWise provided the name of a company that eventually took the tapes free of charge. "WasteWise technical assistance has provided Kinko's with access to information that is often hard to find or that takes considerable time to research," said Kinko's waste management and recycling manager Joe Yahner. "WasteWise often provides me with Web links to organizations or other contacts within EPA that may be helpful. Rather than spending hours searching the Web for my question, I can make a quick phone call to our WasteWise rep and usually get the answer in a day or two."

College and University Satellite Forum

On February 22, 2001, WasteWise co-sponsored a satellite forum, *Solid Waste Gets a Higher Education*, along with the National Recycling Coalition's College and University Recycling Council (CURC). The forum focused on campus waste reduction for colleges and universities. Panelists shared their experiences in waste prevention, recycling, and purchasing recycled-content products in a campus environment. The forum was broadcast live to more than 200 downlink sites and online, and a VHS tape of the forum was produced and distributed to interested parties free of charge. Denny Clark, director of facilities management at the University of Virginia, summed up the WasteWise satellite forum, saying "Every time we talk or get together, we learn from each other."

A satellite forum sponsored by the EPA Climate and Waste Program also highlighted WasteWise as an example of how a voluntary program can mitigate greenhouse gas (GHG) emissions by helping organizations reduce their solid waste. On December 7, 2000, the nationwide satellite forum—entitled *Why "Waste" a Cool Planet: MSW Solutions for Global Climate Change*—helped educate businesses and state and local governments about the relationship between solid waste management and climate change. One of the panelists was Scott Seydel of the Seydel Companies, a 2001 WasteWise Partner of the Year. Copies of these forums are available by contacting the WasteWise helpline at 800 372-9473.

On the Horizon

WasteWise will continue to offer new and improved services in the upcoming year. A major new initiative, which will be introduced late in 2001, will be the WasteWise Buildings Challenge. Primarily intended to encourage partners to reduce construction and demolition (C&D) debris, participants will receive technical assistance and resources on many of the concepts within the broad arena of "green buildings." WasteWise is developing educational materials and Web-based resources that will help partners reduce C&D debris and increase the procurement of recycled building products. As part of this program, there will be a WasteWise Buildings Challenge Award presented at the WasteWise awards ceremony in 2002 and 2003.

In 2000, as part of its company-wide Environmental Management System, Northeast Utilities established a corporate facility-based EMS team focused on reducing paper and energy consumption and promoting environmentally preferable products. One initiative focused on promoting the use of remanufactured laser toners. This effort reduced toner inventory by 80 percent, cut product costs by 40 percent, and will contribute approximately \$27,000 to the \$2.6 million Northeast Utilities spends annually on recycled content products.

Membership

Partners

The WasteWise partnership continued to grow as more organizations learned about the benefits of waste reduction. Membership grew by almost 20 percent (196 partners) during the last 18 months (look inside the back cover for a complete list of new partners). After starting with 281 charter partners in 1994, WasteWise had 1,148 partners as of July 1, 2001.





The membership includes all types of organizations, including large corporations; small businesses; federal, state, local, and tribal governments; schools and universities; and hospitals and other nonprofit institutions.

Endorsers

A large part of the continued growth in the WasteWise program is attributable to the efforts of endorsers, which are business groups, trade associations, and government agencies that promote WasteWise to other organizations. Currently, there are 112 WasteWise endorsers, and the number continues to grow. WasteWise supports endorsers by providing industry-specific technical information, journal and newsletter articles about waste prevention and recycling, and an endorser section on the WasteWise Web site. WasteWise is also increasing its efforts to publicize endorsers' contributions in publications and press releases, as well as at national and regional WasteWise events. WasteWise now also formally commends leading endorsers at the annual WasteWise Awards and Recognition Ceremony.

Partner Network Meetings

WasteWise continued to facilitate opportunities for partners to exchange information through its popular Partner Network meetings, where partners can interact with their colleagues, talk about their waste reduction successes and challenges, and hear about effective waste reduction innovations and strategies. During 2000 and the first half of 2001, WasteWise held meetings in Baltimore, Maryland; Atlanta, Georgia; the District of Columbia; Lake Success, New York; and Boston, Massachusetts. Among the topics discussed at these meetings were Resource Management, computer donation and reuse, waste tracking systems, green teams, restaurant recycling, commingling recyclables, communicating results to employees and customers, and obtaining and sustaining management support for waste reduction programs. WasteWise thanks the hosts of these Partner Network Meetings: Baltimore Gas & Electric; Canon USA, Inc.; The Seydel Companies; PEPCO; Pitney Bowes, Inc.; and U.S. EPA Region 1.

"It was great to meet and benchmark against other local partners in the program. I gained many ideas and tips as participants shared their experiences."

-Evaluation form comment from a recent WasteWise
Partner Network Meeting attendee

By giving polystyrene foam and peanuts to end users for reuse, WasteWise partner Rockwell Collins conserved more than 35 tons of polystyrene in 2000, preventing the release of approximately 29 metric tons of carbon equivalent. Through the **Rockwell Educational** Access to Computer **Technology program** (REACT), the company also refurbished and donated more than 2,300 computers to schools and organizations.





2001 Award Winners

In 2001, WasteWise named 18 Partners of the Year and 1 Endorser of the Year in 12 award categories. Partners of the Year are those partners that EPA judged to have accomplished and reported the most impressive waste reduction results for 2000. In addition, WasteWise recognized 39 Program Champions that made noteworthy accomplishments in waste prevention, recycling, and buying or manufacturing recycled-content products in 2000.

Very Large Business Partners of the Year

Eastman Kodak Company

Headquartered in Rochester, New York, Eastman Kodak seeks innovative ways to reduce waste, including remanufacturing its line of single-use FUNSAVER cameras. Through this program, Kodak diverts mixed plastics and metals from the waste stream by incorporating the parts into new cameras. Under this program, the current return rate is 74 percent. In 2000, Kodak reused 125 tons of off-spec polyethylene-coated photographic paper as product tray liners and reused 850 tons of old furniture and electrical equipment. In addition, the company recycled more than 65,000 tons of materials, including ferrous metals, PET, highgrade paper, corrugated boxes, mixed plastics, polystyrene, wood, and mixed paper. Kodak also developed purchasing specifications to guide its efforts to incorporate quality recycled materials into its products. Overall, Kodak spent \$24 million on recycled-content items.



GENERAL MOTORS CORPORATION



GM, an automobile manufacturer headquartered in Detroit, employs more than 350,000 people in more than 70 North American facilities. Recognizing that the waste stream often contains valuable resources, the company is implementing Resource Management, a holistic approach to waste management contracting that seeks to reduce waste disposal through a process of prevention, reuse, and recycling. GM plans to fully implement RM in all its North American facilities by the end of 2001. To name just a few

examples, GM reused building materials and eliminated some uses of corrugated packaging and office paper. Through product engineering improvements, GM reduced the amount of steel scrap and lifetime brake part waste associated with its line of full-size sport utility vehicles. The company saved more than \$100 million by recycling more than 1.5 million tons of material, including corrugated boxes, mixed plastics, aluminum, steel, iron, and wood. GM also understands the importance of closing the loop by purchasing items with recycled content. In 2000, GM incorporated more than 3,500 tons of recycled-content plastic, textile, and rubber components into its automobiles.

VERIZON

Verizon, a telecommunications giant headquartered in New York, takes advantage of technology to reduce waste. The company saved more veri**z**on than \$4 million by encouraging its 260,000 employees to use the company intranet to obtain training and personnel information. The company also posted its phone directory and forms online and used electronic purchase orders and invoices. In addition, the company repaired, reused, or sold more than \$60 million worth of specialized telecommunications equipment salvaged from maintenance and upgrade efforts. Verizon generated additional revenue of more than \$27 million by collecting recyclable materials, including corrugated packaging, paper, plastics, metals, and wood. In addition, Verizon, the world's largest publisher of directory information, prints its telephone books using a minimum of 40 percent postconsumer content paper. Furthermore, Verizon implemented a new contract with its office products supplier that encourages the purchase of recycledcontent office items and provides a tracking mechanism for these purchases. During 2000, Verizon spent more than \$1 million on recycled-content office supplies under this contract. The company is currently developing a policy governing the return and

refurbishment of wireless telephones throughout its area.

"Verizon's partnership with the WasteWise program is an important part of our company's efforts to reduce costs while conserving the environment."

Very Large Business Program Champions

ANHEUSER-BUSCH COMPANIES, INC.

Anheuser-Busch Companies, Inc. is a St. Louis-based corporation with subsidiaries that include the world's largest brewing organization. Its brewing subsidiary, Anheuser-Busch Inc. reuses two major by-products of the brewing process, diatomaceous earth and spent beechwood chips--in cement and compost--respectively. In addition, the company recycles its spent grains by selling it to dairy farmers for animal feed.

The Anheuser-Busch Entertainment parks, such as SeaWorld and Busch Gardens also contribute to the company's waste reduction efforts by composting millions of pounds of yard and stable waste for reuse in landscaping projects. Additionally, Busch Agricultural Resources Inc., the company's agricultural subsidiary, reused more than 314,000 tons of organic material as a soil amendment.

Overall, Anheuser-Busch recycled more than 2 million tons of material in 2000, including corrugated packaging, paper, plastics, aluminum, glass, construction materials, and wood. A founding member of the Buy Recycled Business Alliance, the company is one of the largest purchasers of recycled-content products in the United States. Specifically, Anheuser-Busch purchased more than \$2 billion worth of recycled materials in 2000, including packaging materials, copy paper, letterhead, business cards, and envelopes.

BANK OF AMERICA

Headquartered in Charlotte, North Carolina, Bank of America employs 148,000 people. The company sponsors community outreach activities as part of its effort to establish corporate "environmental networks" designed to encourage employees to interact with surrounding communities. Activities included brown bag lunches featuring topics such as composting and electric vehicles and educational programs for children, including a poster contest and tree planting at local schools. Bank of America also reduced waste by investing in new technology that allows it to distribute employee and customer documents electronically. In addition, the company began developing a comprehensive waste tracking system to better assess its

environmental performance. Furthermore, Bank of America collected more than 30,000 tons of corrugated material, paper, mixed plastics, metals, and glass for recycling. Finally, Bank of America does its part to close the recycling loop by investing in carpet, furniture, office supplies, copier paper, and stationery made from recycled products. To ensure that all employees understand the importance of buying recycled, Bank of America implemented the "Make it Second Nature" campaign to educate staff about the company's waste reduction goals and encourage them to purchase recycled products.

DISNEYLAND RESORT

Located in Anaheim, California, Disneyland® Resort is a popular tourist destination employing 20,000 Cast Members. The Disneyland® Resort has implemented many environmentally friendly programs that range from a measurement system which tracks its waste reduction and donation efforts to a toner cartridge return program. Additionally, the Resort recycled more than 5,200 tons of material in 2000, including rubber, food, wood, leaves and brush, glass, metals, plastics, corrugated packaging, and paper. The Resort also purchased furniture made from 100 percent recycled HDPE plastic for its outdoor guest areas, including benches, picnic tables, and kraft tables.

KINKO'S, INC.

Kinko's, an office services provider headquartered in Ventura, California, developed a company-wide intranet system to distribute memoranda and training materials to all branch locations. In addition, the company implemented a paperless invoicing system for its major vendors. Kinko's also leases 92 percent of its copiers and printers and 82 percent of its computers and finishing equipment, which lessens the environmental burden typically associated with end-of-life electronics equipment. The company also returns used toner cartridges to the manufacturer, where they are refilled and resold to Kinko's at a reduced rate. With 85 percent of its branches participating, Kinko's recycled more than 6,000 tons of paper in 2000. Furthermore, the company purchased more than 6,500 tons of recycled-content paper and 2,000 tons of recycled packaging.

TARGET CORPORATION

Target Stores, a retail titan headquartered in Minneapolis, operates an ambitious and innovative waste reduction program. For example, Target donates leftover food from its corporate cafeteria and the restaurant in a nearby store to a local hog farm. Other donation efforts include a program to give used desktop computers to churches, hospitals, and community centers. Target also works to reduce plastic hanger waste by conducting a closed-loop hanger reuse program within its retail stores and recycling damaged hangers. Even more impressively, Target works with its suppliers to ensure that 99 percent of all clothing and 95 percent of all shoes arrive at the store with no excess packaging. Additionally, the company expanded its paperless operating environment by sharing sales and inventory reports, in-stock data, purchase orders, invoices, accounts payable information, and newsletters electronically. The company collected more than 2.5 million tons of material, chiefly corrugated packaging, for recycling. Target also purchased recycled-content products, including antifatigue floor mats for cashiers made from recycled tires, 30 percent postconsumer fiber paper for printing brochures and training manuals, overhead store signs made from recycled paper and corrugated material, and shoe boxes made from 80 to 100 percent recycled-content paper.

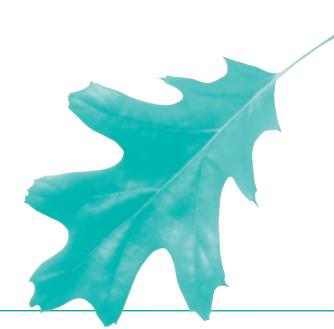
THE WALT DISNEY COMPANY

The Walt Disney Company manages a theme park, studios, and other attractions near Anaheim, California, and employs 37,500 people. Disney decreased paper usage and saved \$25,000 in 2000 by ordering office supplies electronically instead of by fax. Disney also saved more than \$150,000 by establishing a company-wide return program for toner cartridges. In addition, the company commissary implemented a policy of using salad bar plates for dine-in meals and using disposable packaging only for take-out orders. Walt Disney Studios also main-

tains a database that lists all reusable sets and props to facilitate sharing these materials, while the lighting department donates used lighting gels to the Los Angeles Children's Museum for art projects such as kaleidoscopes and imitation stained glass. The company collected more than 4,000 tons of recyclable materials, including plastics, wood, mixed paper, and corrugated packaging. Disney's buying recycled activities included testing rechargeable batteries and recycled glass coffee mugs, increasing the percentage of recycled material in printer and copier paper, and working with its office products supplier to track the purchase of recycled-content items.

WALT DISNEY WORLD COMPANY

The Walt Disney World Company, located in Orlando, Florida, is a good neighbor, reaching out to the surrounding community by donating surplus materials for reuse. The company donated more than 10 tons of office supplies to local schools and delivered 200 tons of prepared food to the Second Harvest Food Bank. Disney also reduced its use of plastic bubble wrap by switching to recyclable paper packaging. In addition, the company recycled more than 5,000 tons of materials, including metals, plastics, polystyrene packaging materials, and paper. Furthermore, the company developed a system to track its recycled-content purchasing and continued educating employees about the importance of buying recycled.



Large Business Partners of the Year

CONSTELLATION ENERGY GROUP

Constellation Energy Group, located in Baltimore, sought out innovative and cost-effective new programs to prevent waste, increase recycling



rates, and increase spending on recycled-content products in 2000. The utility donated 26.9 tons of computers and electronic equipment for reuse through its computer donation program. Hard copies of numerous documents, including the employee handbook and an environmental standards publication, were eliminated and made available electronically on the corporate intranet. In 2000, 96 wood utility poles were refurbished, inspected, and returned to stock for reuse, saving the company \$28,800. The company also promoted waste prevention both to its employees and to other businesses through its Businesses for the Bay mentoring program, participation in various events, and featured articles in the company's Business Express newsletter and internal magazine Quest. Constellation Energy Group, which employs 6,500 people, also recycled an impressive 412 tons of yard trimmings, 149 tons of non-ferrous metals, 47 tons of mixed paper, 42 tons of mixed plastics, and nearly 17 tons of corrugated boxes. In addition, the company recycled the oil from its vehicle oil filters and 100 percent of the aerosol cans it collected. The utility also spent a total of \$721,369 on recycled-content products, including 1,043 retread tires, plastic piping, carpeting, remanufactured furniture, paper wipes, and bill envelopes.

PITNEY BOWES, INC.



Pitney Bowes

Pitney Bowes, Inc., headquartered in Stamford, Connecticut, implemented numerous innovative waste prevention, recycling, and buy-recycled measures in 2000. Two of the company's divisions conserved 344 tons of wooden pallets through its wood pallet reuse program. Incoming packaging was reused for outgoing shipments, conserving an additional 26 tons of wooden pallets. Pitney Bowes also educated its 7,800 employees on the benefits of waste reduction through posters, e-mail, and other communications. Six of the company's facilities implemented a program to recycle Styrofoam products used in food service. The Styrofoam is converted into a gel-like material that is then returned to the recycling-equipment vendor for further processing back into Styrofoam or other plastic products. This process resulted in a 40 percent reduction of total trash volume at those facilities. The company reground 35.5 tons of postconsumer HDPE plastic and mixed preconsumer plastic resins for reuse in plastic products. The company also recycled more than 1,139 tons of corrugated, 827 tons of high-grade paper, 327 tons of HDPE, and 139 tons of mixed paper. Plastics recycling alone generated a cost savings of nearly \$115,000. In addition, the company purchased 1,477 tons of 30 to 100 percent postconsumer recycled-content paper and corrugated, and 90 tons of janitorial and cafeteria supplies with 40 to 100 percent recycled content. Employees are strongly encouraged to purchase products with the highest possible recycled content. Pitney Bowes also encouraged its vendors to prominently identify products containing recycled content in catalogs so that these products could be easily identified and procured. Vendors were also asked to provide the maximum number of recycled-content products.



Public Service Enterprise Group

Public Service Enterprise Group (PSEG), a combined electric, gas, and energy services holdings company located in New Jersey, provides electricity and gas to more than 3.5 million New Jersey customers. PSEG continued its commitment to waste reduction, recycling, and buying and manufacturing recycled products in 2000 through numerous innovative programs and initiatives. The energy company supported local charitable organizations, schools, and community groups by



donating nearly 13 tons of refurbished computers. The donation program included 200 computer systems sent to Pedals for Progress, a nonprofit corporation focusing on needs in developing Latin American countries. The company also reused 81.2 tons of furniture, saving \$57,530, and refurbished 1,054 pounds of street lighting. PSEG also saved \$15,444 by purchasing retread tires in 2000. Through its Buy Recycled Policy, the company purchased more than \$2.7 million worth of recycled-content products—up 25 percent from 1999.

Large Business Program Champions

ADVANCED MICRO DEVICES, INC.

Advanced Micro Devices, Inc. (AMD), has undertaken many efforts to reduce waste at all of its locations worldwide. Waste reduction and recycling is rooted in the AMD culture, as evidenced by AMD's practices of donating surplus computer equipment, furniture, and supplies to non-profit organizations; recycling numerous materials including cardboard, plastics, wooden crates and pallets, beverage containers, scrap metal, and dry cell batteries; and sending landscape waste for composting. In 2000, waste reduction programs at AMD's U.S. sites in California and Texas resulted in reducing solid waste disposal by 1,917 tons. The company instituted a program to reuse cloth wipes and in 2000, nearly 6 tons of cloth wipes were laundered and reused at the Austin, Texas site. AMD recycled more than 1,200 pounds of consumer type dry-cell batteries and spent over \$111,000 on recycled-content office products. AMD promotes employee awareness of reduction and recycling programs by distributing an employee recycling handbook, posting recycling program announcements on bulletin boards, and distributing information to employees during events such as the AMD Health Fair and AMD Benefits Fair.

ALLERGAN, INC.

Allergan, Inc., a pharmaceutical company located in Irvine, California, made packaging changes that resulted in a reduction of nearly 68 tons of boxboard, saving \$20,000. The company also reduced package weights for intraocular lenses and tablet blisters. Light weighting of this packaging reduced boxboard by nearly 188 tons and PVC plastic by more than 66 tons and saved Allergan \$2.3 million. The company also recycled an impressive 1,000 tons

of corrugated boxes, 815 tons of HDPE plastic, and 350 tons of copier paper. Recycling rates were up 18 percent compared with 1999 levels, with estimated cost savings at \$339,462 for 2000.

BATTELLE MEMORIAL INSTITUTE

The 5,500 employees at Battelle Memorial Institute, which is based in Columbus, Ohio, worked to reduce paper usage by duplex copying. This action resulted in a reduction of 6 tons of copier paper. Battelle also conducted a number of Pollution Prevention Opportunity Assessments to identify ways to eliminate, reduce, reuse, and recycle solid waste. The company also purchased duplex printers, copiers, and fax machines in 2000. Battelle also spent \$650,000 on recycled-content products in 2000.

CROWN CORK & SEAL COMPANY, INC.

Crown Cork & Seal Company, Inc., a worldwide consumer packaging company headquartered in Philadelphia, implemented a comprehensive waste prevention plan to reduce packaging waste in its 87 North American plants. A packaging return program instituted with suppliers conserved tons of corrugated boxes. The company improved upon its packaging reuse program in 2000 by making the switch to plastic pallets and separator sheets, eliminating the use of paper and wood products. Thousands of pounds of mixed paper were conserved when Crown Cork & Seal posted its environmental health and safety manuals on the company Intranet, eliminating the need for thousands of paper copy updates and related distribution costs. The company also increased the amount of postconsumer recycled PET plastic used in the manufacture of plastic bottles from 2 percent to 5 percent.

FLORIDA POWER & LIGHT

Florida Power & Light prevented the disposal of approximately 11,700 utility poles through donation and sale. Pole line hardware and other parts were reclaimed, refurbished, and returned for reuse, saving the utility approximately \$1.5 million, based on estimated market value. Florida Power & Light also saved \$21,000 by reusing wood reels. The wire and cable on the wood reels is recycled, and then the reels are salvaged for reuse. Wood reels that are not suitable for reuse are ground up and recycled for mulch. Recycled-content office supplies and promotional items were also purchased in 2000. In addition, the utility promotes WasteWise and educates its 10,000 employees on the benefits of waste reduction and recycling through presentations, special events, publications, and the Internet.

HERMAN MILLER, INC.

Herman Miller, Inc., a furniture manufacturer in Michigan, once again held its growth in total waste in check while recording a year of expanded sales and production. Since 1994, the company's waste reduction activities have resulted in a yearly reduction of approximately 20,000 tons of solid waste and an estimated savings of \$120 million. The company's efforts have also resulted in the recycling of an impressive 9,313 tons of steel, 1,729 tons of corrugated paper, 320 tons of mixed plastics, and 164 tons of mixed paper. In addition, the furniture manufacturer has begun to provide sawdust to local farms to produce high-quality compost. Herman Miller has spent \$200 million on recycled-content products, including 100 percent recycled aluminum and 22 percent recycled-content steel. Manufacturing recycled-content products is also a priority for the company. As one example of its many products that are designed for the environment, Herman Miller's chairs are manufactured to contain between 40 to 77 percent recycled content.

MILLIPORE CORPORATION

Millipore Corporation, a Massachusetts-based company, donated 5 tons of 9x12 white booklet envelopes to local and regional schools. The company also sold 69 tons of office furniture and industrial equipment for reuse, saving \$5,934. Millipore also implemented a wooden pallet reuse program in 2000. They achieved an increase in its recycling rate from 32 percent in 1999, to nearly 44 percent in 2000. The company also recycled 142.4 tons of wood, 13.3 tons of magazines, 3.7 tons of computer paper, and 1 ton of PET plastic. Cost savings resulting from the company's recycling program were significant—\$12,000 for recycled wood alone. Closing the recycling loop was also a priority for the company with recycled-content purchases of \$161,747 in 2000.



SOUTHERN CALIFORNIA EDISON

Southern California Edison, a California utility company, saved 125 tons of high-grade paper by putting employee directories and maps on the company's intranet, saving \$50,000. The utility also worked with vendors to have goods delivered on reusable pallets instead of cardboard boxes, saving 5 tons of corrugated boxes. Incoming boxes were used for outgoing shipments, saving 6 additional tons of corrugated. The company's reusable mug program also conserved 75 tons of paper cups. In addition, they recycled 8,801 tons of wood, more than 244 other nonferrous metals, and more than 169 tons of other ferrous metals. The company spent \$200,000 on recycled-content products in 2000 as well.

United Technologies Carrier Corporation—Indianapolis

In 2000, United Technologies Carrier in Indianapolis, Indiana, continued its ambitious waste prevention and recycling programs. The HVAC manufacturer has significantly reduced cardboard and wood pallet usage by converting the shipping containers of more than half of its inbound bulk materials to returnable containers. A recent vendor agreement resulted in the reduction of more than 33 tons of pallet waste per year. In addition, United Technologies Carrier diverted previously landfilled concrete waste from the waste stream by hauling it to local facilities where it was ground for reuse. This change eliminated 512 tons of landfilling per year, and the fees are also less than typical landfill tipping fees.

VIRCO MFG. CORPORATION

Virco Mfg. Corporation, located in Conway, Arkansas, made great strides in waste reduction, recycling, and the purchase of recycled products in 2000. The furniture manufacturer reduced more than 6 tons of mixed office paper when the entire company converted to email. Virco also continued its program to eliminate unnecessary packaging by transporting school furniture on reusable pallets instead of in corrugated containers. Approximately 10,000 pallets were repaired for reuse, while boards that could not be salvaged were ground up for use as mulch. In 2000, the company made a \$350,000 profit for various recycled scrap plastics and purchased an impressive \$30 million of recycled-content products.

Midsize Business Partner of the Year

Guardian Industries—Ligonier Plant

Guardian Industries in Ligonier, Indiana, an automotive glass manufacturer, has a diverse waste reduction program that finds ways to divert materials traditionally disposed of in the manufacturing process. In 2000, Guardian saved \$26,100 and 2,868 pounds of cloth by laundering gloves instead of disposing of them and by implementing a glove return program. The facility also laundered wiping cloths after substituting them for paper towels, eliminating 1,600 pounds of paper towel waste and 9,350 pounds of cloth waste from the waste stream. Guardian converts what would normal-



ly be waste material into a raw material by recycling all glass that is not used as an end product. The glass is returned to the raw glass plants for reuse or purchased by cullet vendors to be made into glass beads for bead blasting, fiberglass, or reflective paint for highways. In addition, Guardian manufactures millions of windshields each year and uses a new razor blade for each piece of glass. By recycling 7.5 tons of these discarded razor blades along with 92 tons of scrap steel, the plant diverted a total of 99.5 tons of steel from the waste stream in 2000 and saved \$2,192. Guardian halted the incineration of scrap wood by having the wood chipped and reused as animal bedding or landscaping material, giving a second life to more than 146 tons of wood. In 2000, it recycled 43 tons of corrugated cardboard and 34 tons of mixed paper, saving \$4,330. In addition to spending \$3,096 on recycled-content materials in 2000, Guardian purchased 7,740 pounds of recycled-content 55-gallon drums, saving \$6,787.

Midsize Business Program Champions

AMTRAK

The 700 employees at Amtrak's Los Angeles Union Station and mechanical facilities constantly learn about and implement new ways to reduce waste. In 2000, the employees of Los Angeles implemented ideas for reducing waste such as switching to reusable cups, refillable pens, and duplex copying. Additionally, revenue generated from recycling was used to buy employees T-shirts, hats, and duffel bags made from recycled materials. The company saved \$3,000 by beginning a toner refill program and eliminated 500 pounds of waste. Through a materials exchange, Amtrak promoted the internal reuse of items such as office supplies, cleaning supplies, and packing peanuts. Through increased recycling and diversion, it eliminated two trash compactors, saving \$33,700. Finally, the company spent more than \$7,000 on recycled-content products in 2000.

BERT FISH MEDICAL CENTER

Bert Fish Medical Center in New Smyrna Beach, Florida, tries to cultivate a climate that lets employees and patients know it cares about the environment. In 2000, the medical center hosted a biannual giveaway in which employees brought excess supplies—normally discarded—to a central location for exchange. During a recent demolition of an old portion of the hospital, the center held a community yard sale that generated \$3,000 by selling furniture and memorabilia. The medical center also diverted approximately 300 pounds of packaging from a landfill in 2000 by having a large receptacle for staff to deposit packaging peanuts or bubble wrap for reuse.

POLYONE—ENGINEERED FILMS GROUP

PolyOne Engineered Films Group is part of PolyOne Corporation, a world-wide polymer services company with locations in Lebanon, Pennsylvania; Winchester, Virginia; and Yerington, Nevada, The Group strives to reduce the amount of solid waste it landfills by 10 percent every year. Its Winchester plant alone diverted more than 925 tons of materials from the waste stream in 2000. After achieving ISO 14001 certification in 2000, PolyOne's Winchester plant trained employees at all levels on new environmental management procedures, tracked and reported monthly waste reduction figures to all employees, and created production floor teams to resolve any excess waste problems. As one example of its solid waste reduction program, the Winchester plant reuses large plastic bags, used to cover

unfinished products during final stages of production, until they are dirty or torn. When no longer usable, the bags are collected and recycled into plastic lumber.

SIEMENS AUTOMOTIVE CORPORATION

Siemens Automotive Corporation's Newport News, Virginia, facility saved \$27,750 in 2000 by reusing pallets internally instead of purchasing new pallets and recycling the pallets that could not be reused. With a goal of recovering 750 pallets, the organization actually recovered 2,484 pallets for a tremendous cost savings. Additionally, the company conducted an employee awareness program on the reuse of lab coats in its clean rooms, decreasing the disposal of lab coats by 33 percent and saving \$20,952.

Small Business Partners of the Year

THE SEYDEL COMPANIES

The Seydel Companies, a chemicals manufacturer with 109 employees located in Pendergrass, Georgia, integrates environmental performance into its fundamental goals. Seydel continuously evaluates the potential to reuse viable obsolete materials instead of disposing of them in a landfill, saving \$481,000 and 658 tons of materials in 2000 by doing so. In 2000, Seydel also adapted its training program materials to the Internet, saving an estimated 700 pounds of paper, in addition to fuel for off-site travel. Additionally, the company increased electronic communication in day-to-day operations for items such as shipping logs, phone lists, reports, and meeting announcements. To reduce production waste, Seydel donated 1,000 pounds of excess cloth to a local senior center for quilt making and saved 6,892 pounds of glass and \$4,329 by cleaning and reusing glass sample jars. Ongoing activities also included returning drums and totes to the vendor in a closed-loop recycling system and purchasing more than \$350,000 of recycled-content products.



EVELYN HILL, INC.—STATUE OF LIBERTY NATIONAL MONUMENT

Evelyn Hill, Inc. operates the gift shop and food service at one of the most widely recognized American monuments, the Statue of Liberty National Monument. In 2000, the family-owned concessioner of 150 employees committed to improving solid waste management on Liberty Island, establishing a recycling center on the island and prioritizing waste prevention, recycling, and recycled-content procurement. Evelyn Hill worked extensively with vendors to redesign packaging and lightweight containers and emphasized switching to reusable or recyclable containers. Specifically, the company negotiated with Haagen Dazs to eliminate the cardboard overwrap and individual cardboard boxes in ice cream packaging, eliminating more than 3 tons of cardboard from the waste stream. The company also worked with Tyson to create a special bulk pack for its chicken patties. Diverting nearly 2 tons of solid waste, the company replaced cans of cheese sauce with pouch bags, switched from cans to paper containers for hot chocolate, and replaced hand soap from plastic jugs to concentrate in smaller containers. French fries were served in washable plastic baskets, conserving nearly 2 tons of paper plates, and a travel mug and souvenir take-home cup reduced paper cup disposal by nearly 2 tons. In the first year of its program, Evelyn Hill purchased more than 220,000 hamburger and sandwich boxes made from 40 percent postconsumer content, and replaced many of its paper products with recycled-content products. In total, the company saved \$112,000 in 2000. Finally, Evelyn Hill educated visitors and employees about the importance of resource conservation, printing an educational message on its 100 percent recycled-content napkins.



Small Business Program Champion

PARI Innovative Manufacturers, Inc.

PARI Innovative Manufacturers, Inc. continues to explore options to reuse transport containers to ship materials and products. The company uses reusable corrugated containers to ship materials between vendors and its manufacturing facility in Midlothian, Virginia, and also between Midlothian and an assembly facility in Mexico. When the boxes can no longer be used, they are broken down and returned to the vendor for reuse. PARI also uses reusable wooden

pallets for shipping. To reduce paper consumption, the company emphasized electronic communication by distributing company newsletters electronically, consolidating reports, and using electronic documents. The company emphasizes "pre-cycling"—evaluating a product's packaging before purchasing—and encourages employees to bring newspapers and cans from home for recycling. In addition, it returns cartridges for photocopy and fax machines to the manufacturer to be refurbished or recycled.



Federal Government Partners of the Year

SANDIA NATIONAL LABORATORIES

The New Mexico and California facilities of Sandia National Laboratories prevented 209 tons of solid waste by switching to reusable cafeteria dishware, saving the federal facility approximately \$22,000 in 2000. Sandia's sustainable design principles made waste prevention a priority when designing new buildings.



More than 200 items, including sinks and hardware, were reused and more than 656 tons of construction debris was recycled. Sandia, which employs 9,000 people, also made improvements in its recycling collection system and worked to reduce contamination. These activities contributed to the recycling of an impressive 17,989.3 tons of building materials, 169.7 tons of computer paper, 85.2 tons of corrugated boxes, 35.3 tons of mixed paper, 31.5 tons of newspaper, 2.9 tons of plastic bottles, and more than 50 tons of yard trimmings, which were sent to a compost facility.

U.S. Postal Service—Alabama District

The 7,614 employees of the U.S. Postal Service — Alabama District worked to meet ambitious waste prevention, recycling, and buy-recycled goals in 2000. The Alabama District imple-



mented several innovative programs to improve its electronic communications and tracking methods. These actions conserved 55 tons of high-grade paper through electronic routing of documents, 4,000 pounds of paper by switching to electronic time clocks, 3,400 pounds of high-grade paper through a new online reporting system and electronic document scanning, and 3,320 pounds of mixed paper by eliminating the use of several forms in the human resources department. The Alabama District sold wood pallets, mixed plastic items, and obsolete items for reuse, earning more than \$22,198 in 2000. In addition, 500 tons of corrugated boxes were conserved when the Alabama District switched to a reusable alternative. Recycling efforts for the federal agency yielded revenues of more than \$25,000.

Federal Government Program Champions

U.S. EPA REGION 9

U.S. EPA Region 9, headquartered in San Francisco, California, found ways to prevent waste and promote the WasteWise program at every opportunity. The WasteWise message was spread through voice mails, electronic newsletters, a WasteWise category on the "Communicator" electronic bulletin board, and "Floor Representatives" provided information on waste reduction to employees. Three "Brown Bag" events, a "WasteWise Extravaganza Recycled Fashion Show" featuring fashions made from recycled products, and a "WasteWise Kick-Off Party" were also held to provide information and solicit ideas for waste reduction. More than 170 pounds of various supplies were collected for reuse at a "Swap-O-Rama" event in 2000. The federal facility also purchased 20 additional duplex laser printers and held "Duplex Days," coordinated by the floor representatives to teach employees to route documents to duplex printers. Nearly 130 of the region's 900 employees signed a pledge to duplex copy and print. U.S. EPA Region 9 also purchased an impressive \$140,000 of recycled-content products in 2000.

U.S. GOVERNMENT PRINTING OFFICE

The U.S. Government Printing Office (GPO), located in Washington, DC, saved \$20,000 in 2000 by initiating a program to repair approximately 4,000 wooden pallets equivalent to 80 tons. Pallets that cannot be repaired are chipped and sold by a contractor for use as mulch. The GPO also made \$10,026 in profit from the sale of more than 11 tons of computers and electronic equipment for reuse. A new program to recycle all toner cartridges also saved the GPO more than \$27,180 in 2000.

U.S. Postal Service—South Florida District

The U.S. Postal Service — South Florida District's 11,000 employees sought ways to expand its waste prevention, recycling, and buying-recycled programs. An employee education program was established for bulk mail reduction, contributing to the recycling of 937 tons of mixed paper. The South Florida District also recycled 5.8 tons of wooden pallets in 2000. The district recycled 5,787 tons of magazines and undeliverable bulk mail, and more than 583 tons of corrugated boxes. The district also increased its spending on recycled-content products with a total of \$35,830 spent in 2000.

U.S. Postal Service—Northeast Area

In 2000, the U.S. Postal Service — Northeast Area set out to ensure that all of its 3,200 post offices, vehicle maintenance facilities, and processing and distribution facilities implement waste reduction activities through pollution prevention plans. Although the ambitious goal to implement plans at every location was not achieved, the Northeast Area was successful in having more than 64 percent of all its post offices, 100 percent of vehicle maintenance facilities, and 100 percent of processing and distribution facilities implement pollution prevention plans in 2000. The Northeast Area also recycled 38,454 tons of undeliverable bulk business mail and 4,750 tons of corrugated boxes. Through a contract with the Northeast Area's vendor, post offices were required to purchase recycled-content office products. As a result, the Northeast Area spent nearly \$6.6 million on recycled-content products.

State Government Partner of the Year

STATE OF OHIO

From eliminating a multi-part form to reclaiming old asphalt, Ohio state employees implemented several waste reduction initiatives in 2000. The effort boosted state agency recycling tonnage by almost 5 percent—to 2,270 tons—and several waste prevention projects achieved demonstrable savings in staff time and taxpayer money in the bargain. The Ohio Bureau of Workers



Compensation implemented a paperless medical claims imaging system, saving \$483,000 in expenses, nearly 22 tons pounds of office paper and file folders and 2,500 pounds in toner cartridges. By receiving long-distance records on CD-ROM, the Ohio Department of Administrative Services is conserving 1,440 pounds of paper a year. The Office of Management and Budget eliminated the use of one form, saving 573 pounds of paper annually. The Ohio Department of Transportation's District 2 reused 50 tons of old asphalt in new road construction in 2000. The recycled-content asphalt cost just \$2.25 a ton, far less than the \$28 a ton paid for "virgin" asphalt. The Taxation Department started saving and distributing interoffice mail envelopes for reuse, saving 573 pounds of paper a year. Recycled-content purchases reported by all Ohio state agencies increased 3 percent in 2000, totaling more than \$2.1 million.

"Membership in WasteWise helps the state of Ohio monitor and effectively measure the success of our waste reduction strategies in both the public and private sectors. As a result, WasteWise has significantly strengthened our ability to put a recycling ethic to work for the benefit of all Ohioans."

—Sam Speck, Ohio Department of Natural Resources

State Government Program Champion

Pennsylvania Department of Environmental Protection

In its second year as a WasteWise partner, The Pennsylvania Department of Environmental Protection, located in Harrisburg, Pennsylvania, visited more than 150 businesses in Pennsylvania through its "buy- recycled" outreach initiative. In each face-to-face visit, Pennsylvania DEP representatives provide the companies with a buy-recycled guide, including information about the WasteWise program. The Waste Management Program of the state agency composted 36 pounds of food in an on-site vermi-composting bin. The state agency also notifies its 1,200 employees of waste prevention and recycling programs through e-mail to conserve paper and promote employee participation.

Tribal Government Partner of the Year

Confederated Tribes of the Umatilla Indian Reservation Tribal Transfer Station

The Confederated Tribes of the Umatilla Indian Reservation located in

Pendleton, Oregon, is the only Northwest Tribe with a full-blown transfer station that offers recycling and solid waste reduction to the public. The tribal government reduced its consumption of high-grade paper and mixed paper through various paper reduction activities. The reservation recycled 40 tons of steel, 25 tons of ferrous metals, more than 3 tons of high-grade paper, and more than 2 tons of mixed paper in 2000. The tribal government, which employees 470 people, also spent \$750 on recycled-content products.



Washoe County Government, Nevada

The Washoe County Government in Nevada achieved numerous waste prevention, recycling, and buy-recycled goals in 2000. The Washoe County Sheriff's Office reused damaged doors and windows from construction companies in order to practice forced entry. After reuse, most of the door and window materials were recycled. The sheriff's office reused 10.75 tons of wood, metal, and glass doors and windows in 2000. The Washoe County Purchasing Department also donated nearly 2 tons of computers and computer equipment to other gov-



ernment entities, schools, and nonprofit groups. A county program to stop landfilling books and magazines diverted 75 tons of paper from the landfill. The Washoe County Library, through the Friends of the Washoe County Library, sold unwanted books and magazines, which were previously landfilled, to the public. Books and magazines that were not sold were donated to various local organizations. Washoe County Government also promoted WasteWise both internally and in the community through articles, awards, speakers, and presentations. The county government's 2,800 employees also recycled 56.8 tons of mixed paper, more than 24 tons of glass bottles, more than 23 tons of aluminum, and 2,080 pounds of corrugated boxes. In 2000, the county also spent approximately \$1.5 million on recycled-content products.

"WasteWise is an empowering program. By showing cost savings through waste reduction. partners are able to protect the environment and at the same time save their employers money. Everyone wins: taxpayers, businesses, and, most importantly, the environment, which is our legacy to the next generation."

> –John Fuller, Washoe County, Nevada

Local Government Program Champions

CITY OF CLIFTON, New JERSEY —RECYCLING PROGRAM

The City of Clifton, New Jersey, conserved 4 tons of disposable cups by providing about 500 reusable mugs to city employees and residents. The local government also established a community education program on waste reduction, recycling, and shopping with the environment in mind. More than 400 tons of street sweepings were salvaged and used as landfill cover in 2000. The city also recycled 200 tons of newspaper and 150 tons of mixed paper, and purchased office paper containing more than 80 percent recycled material and spent \$12,000 on recycled-content products. In addition, the city promotes waste prevention and the WasteWise program in its community education programs, various articles, and through its work with the local Chamber of Commerce and local businesses.

CITY OF DURHAM, NORTH CAROLINA

The City of Durham, North Carolina, ensures that all 2,000 city employees understand the importance of waste reduction in city facilities and the community. In November 2000, the city held its 2nd annual Eco-Reception in conjunction with America Recycles Day. The 300-plus employees in attendance learned how to make environmentally preferable purchases and to promote recycling, reuse, composting, and donation of food at all city events. Mugs displaying the city's advertising campaign design, "Use Less Stuff," were distributed to City Council members and office staff, and all new employees were trained on the city's waste reduction program. Durham's Waste Reduction Policy includes a section on recycledcontent procurement, and the city spent more than \$183,500 on recycled-content products in 2000. Items included picnic benches, recycled paint, various types of envelopes, and paper. To increase reuse, the city is developing an online, internal materials exchange for office supplies and furniture. In 2000, Durham offices expanded their weekly recycling collection to include mixed paper, and additional bins are provided for office moves and file clean-outs.

King County Department of Natural Resources, Washington

The King County Department of Natural Resources began a paper reduction campaign that included presentations at staff meetings on paper reduction. They worked to make double-sided printing more available, started a successful envelope reuse project, and reduced the number of payroll forms used. In one building, about 550 pounds of office supplies were reused in 2000, saving \$1,300. This reuse effort included an "Office Supplies Amnesty Days" program. Polystyrene packing peanuts are collected for reuse by a local shipping business. Approximately 10 cubic yards of polystyrene peanuts were collected

and reused in 2000. In addition, the department collects food waste from some employee lunchrooms and sends it to a community garden for compost. The department also purchased \$18,000 worth of recycled concrete aggregate and spent \$6,200 on re-refined oil.

KITSAP COUNTY BOARD OF COUNTY COMMISSIONERS & EMPLOYEES, WASHINGTON

Kitsap County, Washington implemented a comprehensive waste prevention policy in 2000. The policy directs each department to set annual waste prevention goals and report on their progress at the end of the year to the Board of County Commissioners. Highlights of the program include strategies to use less paper, including revising forms and making it routine to copy on both sides of the paper. Purchasing costs and office waste are minimized through the use of an internal Wa\$te Exchange, a program in which the departments swap surplus office supplies, saving the County more than \$3,700 in 2000. Kitsap County employees have also made efforts to increase the use of products made with recycled content. The Purchasing Department accepts bids for only recycled-content paper and remanufactured toner cartridges. Each November, the county offers a "recycled only" office products show to educate the employees on the quality and availability of office supplies made from recycled materials. Other educational efforts are made through e-mail, the employee newsletter, and the County's Web site at www.kitsapgov.com/sw. Kitsap County is also recognized for implementing a compost program for barn waste at the Fair and Rodeo. The program resulted in turning 150 tons of straw and wood chips into compost instead of sending it to the landfill. Also in 2000, the county recycled 294 tons of office paper/cardboard, 61 tons of steel food containers, and more than 450 tons of recycled or reprocessed concrete and asphalt.

Los Angeles Department of Water and Power, California

In addition to recycling traditional materials such as office paper, beverage containers, and salvage items, the Los Angeles Department of Water & Power (LA DWP) in California conserved nearly 250 tons of yard trimmings through grass-cycling in 2000. E-mail usage also conserved 1,000 pounds of high-grade paper. LA DWP also began a reuse collection program for office supplies through its "Re-Use Store," and collected used eyeglasses, hearing aids, and greeting cards at 15 of its branch offices. The department donated 7.5 tons of various items to local nonprofits and collected an additional 9.8 tons of donations from employees and customers. LA DWP's building remodeling salvage program conserved more than 6 tons of building and construction materials, including carpeting and office supplies. These items were either reused internally or donated to nonprofit organizations.



University/College Partner of the Year

SEATTLE UNIVERSITY

Seattle University, located in the urban center of Seattle, attributes its success at waste reduction to creativity, commitment to excellence, and community support.



Seattle sent more than 46 tons of food scraps to an off-site composting facility in 2000, and recently approved plans to begin on-site composting of food and yard waste. Additionally, its new student center will meet the Leadership in Energy and Environmental Design (LEED) criteria for green buildings. Campus education plays a vital role in the university's success; the Environmental Services Office publishes a quarterly newsletter, *Resource*, that highlights special events, waste reduction, and sustainability; and this April, the office held a fashion show and street fair in celebration of Earth Day. Seattle students and staff donated nearly 5 tons of clothing to local organizations in 2000 through their move-out clothing drive and year-round clothing donation sites.

University/College Program Champions

Eastern Illinois University

Eastern Illinois University, a state university of 9,350 students in east central Illinois, not only looks for common items to reduce, reuse, and recycle, but uncommon items as well. Turning waste into an asset, Eastern composted more than 12 tons of leaves and brush collected on campus in 2000 and used it in landscaping on the campus. The grounds department also sold firewood from tree limbs cleared on campus, netting \$1,190, and chipped wood to use as mulch. To prevent the disposal of reusable VHS tapes, Eastern collected tapes from the athletic department and redistributed them to the campus television station, where they were reused for broadcasting. Since 1999, the university has recycled mattresses by inserting language into its procurement contract requiring that mattresses be recycled, saving fuel, labor, and landfill space.

EMORY UNIVERSITY

Emory University, located in Atlanta, Georgia, makes waste reduction a university priority by emphasizing recycled-content purchasing, as well as reuse and recycling. From 1999 to 2000, the university doubled its spending on recycled-content products to \$1.2 million. To accomplish this, the recycling office, Emory Recycles, added a procurement link to its Web site, and the purchasing department established a requirement that all letterhead would be made of postconsumer-content paper, based on EPA standards. Emory provided all entering freshmen with reusable mugs and educated the campus community about waste reduction by providing tours of the recycling facility to freshmen orientation classes, departments, and neighboring schools. In the area of recycling, Emory

Recycles' staff made it easy to recycle ink jet cartridges on campus by distributing cartridge recycling envelopes to residence halls, administrative offices, and classrooms, collecting 183 cartridges in the first year of the program. Emory's waste reduction policy affects the larger community as well. The university held an "Everything Drive" at which students donated food, clothing, and furniture to local reuse organizations, and students found fun ways of sharing the waste reduction message with local children through an Earth Day fair.

University of Virginia Division of Recoverable and Disposable Resources

The Recycling Office at the University of Virginia continually finds creative ways to increase reuse, recycling, and recycled-content procurement on campus. Educating students and staff about waste reduction is a fundamental aspect of the university's program. For example, UVA Recycling distributed a mini-diskette to all first-year students explaining reuse and recycling on campus, and the office distributes a quarterly electronic recycling newsletter to area recycling coordinators. The Recycling Office also supports R.O.S.E., the Reusable Office Supply Exchange, an online directory that allows faculty and staff to donate and request office supplies that would otherwise be discarded. In 2000, five local organizations participated in the 2000 Student Move Out Program, collecting reusable items such as furniture, non-perishable food, and clothing for redistribution. They were able to divert 24.4 tons of mattresses into the hands of a nonprofit agency that cleaned and redistributed them. Additionally, the university collected more than 600 tons of yard waste for on-site composting last year.

School/School District Partner of the Year

Los Angeles Unified School District Office of Environment, Health & Safety

As the second-largest school district in the country, the Los Angeles Unified School District is committed to expanding waste reduction in its schools and imparting a strong waste reduction message to the more than 700,000 students it services. The district met its 50 percent waste diversion goal in 2000 and conducted on-site visits with more than 40 schools to explore ways to improve recycling. To prevent food waste, the district began an "offer versus serve" program in which students can choose the food they would like to consume, preventing an estimated 13,646 tons of food waste in 2000. The district replaced wooden pallets with plastic pallets that can be used 50 times longer and recycled, displacing more than 171 tons of wooden pallets. Additionally, it diverted approximately 8,080 tons of grass from the waste stream in 2000 by grass-cycling the majority of its athletic fields, and is developing a grass-cycling policy. The district has adopted an Environmentally Preferable Procurement Policy to support the purchase of products that contain recycled content and to minimize impacts to the environment. The district is working with the City of Los Angeles in a cooperative recycling pilot program to further determine what can be diverted from its waste stream.

Electronics Challenge Partners of the Year

Public Service Enterprise Group

Public Service Enterprise Group (PSEG), a combined electric, gas, and energy services holdings company located in New Jersey, provides gas, electric, and energy services to more than 3.5 million New Jersey customers. The energy company supported local charitable organizations, schools, and community groups by donating nearly 13 tons of refurbished computers.



The donation program included 200 computer systems sent to Pedals for Progress, a nonprofit corporation focusing on needs in developing Latin American countries. PSEG also sold more than 6 tons of computers and electronics equipment for reuse at a total savings of \$135,805. In all, PSEG's Computer Recovery and Remanufacturing Program supported the recovery of more than 19 tons of electronics equipment, including CPUs, monitors, keyboards, and peripherals. The company also recycled an additional 29 tons of computer equipment in 2000.

U.S. Postal Service - Alabama District

The U.S. Postal Service — Alabama District donated 12 computer systems to the Urban League. Another 74 computer systems were sent to a postal warehouse and sold for reuse.



The district also upgraded its existing equipment rather than purchasing new systems. As a result, 350 computers were upgraded. In addition, 5 monitors were sold for revenue of \$110, and 7 printers were sold for revenue of \$380. Three CD-ROM drives and eight printers were also recycled.

"WasteWise has been very helpful in taking our waste reduction program to a new level. WasteWise has helped to start new programs at Eastern Illinois University by eliminating the 'trial and error' part of the process."

-Allan Rathe, Eastern Illinois University

"WasteWise has provided us an enhanced focus and more attention on our internal waste reduction goals and objectives. The program also helps us with our mission of providing waste reduction technical assistance to businesses and others. When we approach a business, we can say we are partners with the U.S. Environmental Protection Agency's WasteWise program and we believe in the program so much we're doing it ourselves." -Donna Bowman, South Carolina Department of Health and Environmental Control

Electronics Challenge Program Champions

CITY OF CLIFTON, NEW JERSEY —RECYCLING PROGRAM

In its first year of electronics reuse and recycling collection, the City of Clifton, New Jersey, collected 12 tons of computer and electronic equipment for reuse. In addition, the city held a "Computer Recycling Week" to collect computers, monitors, keyboards, laptops, stereos/radios, telephone systems, VCRs, televisions, and printers from city residents. These items were then disassembled for reuse and recycling. The event was so successful that a second recycling week was held.

RESOURCE RECOVERY AND RECYCLING AUTHORITY OF SOUTHWEST OAKLAND COUNTY, MICHIGAN

In 2000, Resource Recovery and Recycling Authority of Southwest Oakland County, Michigan

(RRRASOC), a local resource recovery and recycling authority of only 4 employees, initiated a program to collect used computer equipment from residents of its eight member communities. As a result, more than 19 tons of computers and computer equipment were recycled.

U.S. Postal Service— Sacramento District

The U.S. Postal Service — Sacramento District in California donated for reuse or recycled numerous electronic items in 2000, including 205 computers, 111 monitors, 75 keyboards, 64 printers, 10 envelope feeders, 4 copy machines, 2 fax machines, and 2 projectors. In addition, hard drives, floppy drives, modems, CD-ROM towers, and other items were recycled.

Endorser Partner of the Year

South Carolina Department of Health and Environmental Control



The sign of a well-integrated organization, South Carolina Department of Health and Environmental Control (SC DHEC) truly leads by example. As both a WasteWise partner and endorser, SC DHEC maintains an extensive internal waste reduction program while promoting WasteWise to organizations across South Carolina. SC DHEC staff regularly conduct on-site visits and use the opportunity to encourage organizations to consider joining WasteWise. Additionally, the agency mailed WasteWise information to recycling coordinators in cities, counties, and universities across the state, and included an article in its quarterly magazine highlighting its collaboration with WasteWise. To reach an even larger audience, the agency developed a WasteWise display that it brings to trade shows and a WasteWise page on its Web site that includes the WasteWise logo and information on the benefits of joining WasteWise, the services offered by the program, and the necessary steps to begin implementing the program.

Endorser Program Champion

CITY OF CLIFTON, New JERSEY —RECYCLING PROGRAM

The City of Clifton, New Jersey, works to promote the WasteWise program and waste reduction on an ongoing basis. The local government promotes waste prevention and WasteWise in its education programs, articles, and through its work with the Chamber of Commerce and local businesses. Numerous articles were printed in local papers mentioning Clifton's par-

ticipation in WasteWise as part of the city's Clean Communities program. In addition, 250 certificates bearing the WasteWise logo were awarded to local businesses and organizations for the city's "Clean Communities Environmental Award." The logo was also featured on the city's "2000 Recycling Guide," which was mailed to more than 2,500 businesses. In addition, the city designed 25,000 book covers and 5,000 coloring books with the WasteWise logo in the design for all 24 public and parochial schools.

New WasteWise Partners

Aaron's Bicycle Repair 💠 ABB Lummus Global, Inc 💠 ABC, Inc. 💠 Acme Building Maintenance 💠 American Honda Motor Co. 💠 Amtrak Anniston Army Depot Arapahoe Basin Ski Area ARCADIS G&M Arches National Park Back Thru the Future Microcomputers, Inc. & Beers York Construction Company, Inc. & Bentley Environmental Engineering, Inc. & Brother International Corporation & Bureau of Land Management—OR District Office 💠 Cabarrus County Government Offices 💠 California State Parks 💠 California State University at Chico & Campus Edge Apartments & Canyonlands National Park & Carten Controls, Inc. & Cascadia Consulting Group & Center for Life Decisions & City of Alexandria, VA & City of Federal Way, WA & City of Greenville, SC & City of Kirkland, WA & City of Upper Arlington, OH * City of Yonkers, NY * Clark Patterson Associates * Cold Spring Elementary School * Collective Good, Inc. * Colorado State University 🏶 Contec 💠 Cresbel Enterprises 💠 Crown Cork & Seal Company, Inc.—Olympia, WA 💠 Cytec Industries, Inc., Wallingford Plant 💠 DaimlerChrysler Detroit Axle 💠 Davlyn Industries 💠 Dept. of the Interior, Central CA Area Office, BOR 💠 DMC Electronics Recycling Co. 💠 Dominion Semiconductor, LLC & DRC Group, Inc. & Dyer Mountain Associates, LLC & Dyess Air Force Base & Earth Club & Earth Friendly Depot & Earthwise, Inc. & Easter Seals Central and Southeast Obio, Inc & ECO PHYSICS, INC. & Emory University & Enviro Solutions & Enviro-Pro & Escrow, Inc. & ETCI, Inc. & Evelyn Hill, Inc. & Farm Credit System Insurance Corporation & Federal Correctional Institute—Ray Brook New York 💠 Federal Correctional Institution—Fairton 💠 FermPro Mfg, LP 💠 Fisher-Titus Medical Center ❖ Frederick County Government ❖ Fresh Fields—Whole Foods Market ❖ Frito-Lay, MD ❖ Frito-Lay, Wooster OH ❖ Full Circle Supply Co., LLC & G and T Industries, Inc. & General Shale Products, LLC & Groundscapes Express, Inc. & Handicapped Driver Services, Inc. & Harper's Consultancy and Superintendency, Inc. & Haz-Waste, Inc. & Hostwork International & Hovenweep and Natural Bridges National Monuments & Huck Fasteners and Alcoa Business & Infineon Technologies Richmond & Insteel USA & Intermag, Inc. & Iowa State University & IPS of Louisiana Corp. & J. A. Volpe National Transportation System Center & Jackson Hole Mountain Resort & JC Wagner Associates 💠 Johnson Rubber Co. 💠 Juniata College 💠 Kessler Consulting, Inc. 💠 Klawock Cooperative Association 💠 Kolmar Laboratories, Inc. 💠 Lancaster Central Schools 💠 Los Alamos National Laboratory 💠 Makah Tribe 💠 Mammoth California 💠 Marconi 💠 Marconi Data Systems 💠 Massachusetts Department of Environmental Protection 💠 Massachusetts Hospital Association 💠 Mayco Plastics, Inc. 💠 McStain Enterprises & Med-Tox Northwest & Miller's Professional Imaging & Mitchell Container Services, Inc. & Mobegan Tribe of Indians of CT & Municipality of Caguas & Myriad Development & National Security Agency—OHESS & Naval Air Facility Washington & Naval Air Station—Patuxent River 💠 Naval Surface Warfare Center Coastal Systems Station 💠 Nebraska Air National Guard 💠 Niagara Mohawk Power Corporation 💠 Nissan North America, Inc. 💠 North Carolina A&T University 💠 Novartis Pharmaceuticals Corporation 💠 Nowogroski Rupp Insurance Group 💠 Obio University Facilities Management 💠 Open Plan Systems 💠 Paper Trail Recycling, Inc. 💠 Philips Semiconductors—CA & Photikon Corporation & Port of Seattle, Landscape Department & Progressive Amenities, Inc. & R.E.M. Industries, Inc. * R.S. Communications * Radio WOSO 1030 AM * RealEco.com * Ricoh Corporation * Ricoh Electronics, Inc. * Roadway Express, Inc. 🏶 Robinson Rancheria of Pomo Indians 🗣 Rockwell Collins, Inc. 🗣 Segue, LLC 💠 Senate of Puerto Rico 💠 Seymour Johnson Air Force Base 💠 Sharp Manufacturing Company of America 💠 Shaull & Ullerich Body Shop 💠 Sheehan International 💠 Smithsonian Garber Facility 🏶 Social Security Administration 💠 Social Security Administration—Main Complex 💠 Social Security Administration—Mid Atlantic 💠 Solvay Polymers, Inc. & Sound Resource Management Group, Inc. & South Carolina Dept. of Health & Env. Control & Spartech Corporation 💠 St. John's University 💠 St. Peter's Health Care Services 💠 State of Connecticut—Department of Administrative Services 💠 Sundance Resort ❖ Supernatural Production, Inc. ❖ T.E.S. Filer Station ❖ T.H.E. Engineers, Inc. ❖ TDK Ferrites Corporation ❖ Tennessee Valley Authority * Tennsco Corporation * The Orcutt/Winslow Partnership * The Presidio Trust * The Retec Group—Pittsburgh Office * Tierra Dynamic Company & Tom Davis Associates & Toyota Technical Center & Tribal Association on Solid Waste Emergency Response & Trinity Springs Ltd. 💠 U.S. Air Force—Grissom Air Reserve Base 💠 U.S. Air Force—Shaw Air Force Base 💠 U.S. Army—Fort Stewart and Hunter Army Airfield 💠 U.S. Department of Agriculture—Agricultural Research Service, Beltsville Area 💠 U.S. Department of Energy—Miamisburg Environmental Management Project 💠 U.S. Department of Labor 💠 U.S. Dept. of Transportation, Maritime Admin./Great Lakes Region 💠 U.S. EPA Region 3 💠 U.S. EPA Region 4 💠 U.S. EPA Region 6 💠 U.S. Government Printing Office 💠 U.S. Postal Service—Sacramento District 💠 Unilever HPC-NA & United Datatech & United Parcel Service of America, Inc. & University of California, Santa Barbara & University of Virginia 💠 University of Washington 💠 Urban Recycling 💠 UT-Battelle, LLC 💠 VIA Metropolitan Transit 💠 Viper Consulting 💠 Virginia Department of Environmental Quality 💠 Virginia Peninsulas Public Service Authority 💠 Virginia Power—Yorktown 💠 Walker River Paiute Tribe 💠 Warm Springs Sanitation and Landfill 💠 Waste Reduction Remedies 💠 Westchester Community College 💠 Westin Rio Mar Beach Resort Country Club & Ocean Villas & Wing Industries & Wintergreen Resort & Wyndham Hotel—Salt Lake City & Xerox Services Division & XVIII Airborne Corps and Fort Bragg, NC & Yellowstone National Park & York College, PA Environmental Conscience Organization & Young Corporation



United States Environmental Protection Agency (5306W) Washington, DC 20460

Official Business
Penalty for Private Use \$300